

CSMAPDU9VPI

HomeConnect® Passive VoIP Amplifier with MoCA Connectivity, unity forward/reverse, nine ports, with power inserter



Product Classification

| | |
|---------------------|--------------|
| Brand | HomeConnect® |
| Product Type | RF amplifier |

Environmental Specifications

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|------------------------------|--------------------------------------|
| Operating Temperature | -40 °C to +60 °C (-40 °F to +140 °F) |
| Safety Standard | SCTE |

Electrical Specifications Rx (Uplink)

| | |
|------------------------------------|------------|
| Operating Frequency Band | 5 – 42 MHz |
| Insertion Loss, video ports | 0.00 dB |
| Flatness | ±1.0 dB |
| Return Loss, minimum | 20.00 dB |
| Noise Figure, maximum | 18.00 dB |

Electrical Specifications Tx (Downlink)

| | |
|---------------------------------|---------------|
| Operating Frequency Band | 54 – 1002 MHz |
| Gain, video ports | 0.00 dB |
| Flatness | ±1.0 dB |
| Return Loss, minimum | 20.00 dB |
| Noise Figure, maximum | 10.50 dB |

Electrical Specifications VoIP

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|---|---|
| Insertion Loss Rx at Frequency Band, VoIP ports, maximum | 4.3 dB @ 5–42 MHz |
| Insertion Loss Tx at Frequency Band, VoIP ports, maximum | 4.5 dB @ 54–550 MHz 6.5 dB @ 550–1002 MHz |
| Return Loss at Frequency Band, VoIP ports, minimum | 20 dB @ 5–1002 MHz |

Electrical Specifications MoCA

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|--|-----------------|
| Operating Frequency Band | 1125 – 1675 MHz |
| Band Rejection, output to input, minimum | 40.00 dB |
| Band Rejection, VOIP to input, minimum | 35.00 dB |
| Insertion Loss, output to output, maximum | 35.00 dB |
| Insertion Loss, output to VOIP, maximum | 35.00 dB |
| Insertion Loss, VOIP to output, maximum | 35.00 dB |

Electrical Specifications Isolation

| | |
|--|--------------------|
| Isolation at Frequency Band, output to output, minimum | 25 dB @ 5–1002 MHz |
| Isolation at Frequency Band, output to VoIP, minimum | 25 dB @ 5–1002 MHz |
| Isolation at Frequency Band, VoIP to output, minimum | 25 dB @ 5–1002 MHz |
| Isolation at Frequency Band, power port to RF output, minimum | 60 dB @ 5–1002 MHz |

Electrical Specifications

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|--|---|
| Group Delay, 2nd channel, maximum | 30 ns |
| Group Delay, channel 3, maximum | 15 ns |
| Group Delay, channel 4–6, maximum | 5 ns |
| Impedance | 75 ohm |
| Operating Current at Voltage | 380 mA @ 15 Vdc |
| Distortion Performance (CTB), minimum | 73 -dBc |
| Distortion Performance (CSO), minimum | 65 -dBc |
| Distortion Performance (X-Mod), minimum | 73 -dB |
| Distortion Performance (CCN), minimum | 60 -dBc |
| Distortion Performance (DTO), minimum | 60 -dBc |
| Distortion Performance (DSO), minimum | 55 -dBc |
| Hum Modulation, minimum | -75.00 dB |
| Group Delay, reverse, maximum | 25 ns |
| Shielding Effectiveness, minimum | 100 dB |
| Surge Capability Test Method | ANSI/SCTE 81 IEEE C62.41-B3 (6 kV, 3000 A, Combination wave) on all ports |
| Surge Capability Waveform | 1.2/50 voltage and 8/20 current combination waveform 100 KHz ring wave waveform |

General Specifications

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|-------------------------------------|---|
| Device Type | All ports down amplifier Two-way subscriber amplifier VoIP subscriber amplifier |
| Video Ports, quantity | 8 |
| VoIP Passive Ports, quantity | 1 |
| Application | Indoor Outdoor |
| Includes | Power adapter Power inserter |

CSMAPDU9VPI

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|-----------------------|----------------------------|
| Video Standard | NTSC |
| Patent Number | 7912431 (expires 8/2/2025) |

Packed Dimensions

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|------------------------|----------------------|
| Carton Quantity | 20 |
| Height | 230.12 mm 9.06 in |
| Length | 445.01 mm 17.52 in |
| Width | 385.06 mm 15.16 in |
| Shipping Weight | 12.31 kg 27.13 lb |

Regulatory Compliance/Certifications

| Agency | Classification |
|-----------------|--|
| RoHS 2011/65/EU | Designed, manufactured and/or distributed under this quality management system |
| ISO 9001:2015 | |



Included Products

- CSHMPI — HomeConnect® Power Inserter for Subscriber Amplifiers with High Isolation
- CSHMPIE — HomeConnect® Power Inserter for Subscriber Amplifiers with High Isolation

* Footnotes

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| Distortion Performance (CCN), minimum | CCN—Composite Carrier to Noise; 77 analog, 110 digital—256 QAM channel loading |
| Distortion Performance (CSO), minimum | CSO—Composite Second Order; 77 analog, 110 digital—256 QAM channel loading |
| Distortion Performance (CTB), minimum | CTB—Composite Triple Beat; 77 analog, 110 digital—256 QAM channel loading |
| Distortion Performance (DSO), minimum | DSO—Discrete Second Order; 13 MHz and 19 MHz, 55 dBmV per carrier loading |
| Distortion Performance (DTO), minimum | DTO—Discrete Third Order; 13 MHz and 19 MHz, 55 dBmV per carrier loading |
| Distortion Performance (X-Mod), minimum | X-Mod—Cross Modulation; 77 analog, 110 digital—256 QAM channel loading |
| Group Delay, 2nd channel, maximum | Channel (3.58 MHz Span) |
| Group Delay, channel 3, maximum | Channel (3.58 MHz Span) |
| Group Delay, channel 4–6, maximum | Channel 2 (3.58 MHz Span) |
| Noise Figure, maximum | Total amplifier contribution |